

IN THE SPECIFICATION AMEND

Page 1, line 2, please insert CROSS-REFERENCE TO RELATED APPLICATIONS:

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This application is a continuation of United States Application Serial No. 09/883,650 filed on June 18, 2001, now abandoned, which is a continuation of United States Application Serial Number 09/361,923 filed July 27, 1999, now United States Patent Number 6,248,263 B1, which is a continuation of United States Application Serial Number 08/616,967 filed March 15, 1996, now United States Patent Number 5,928,572, all of which are hereby incorporated herein by reference in their entirety. –

IN THE CLAIMS DELETE

Please delete claims ~~1~~2, without prejudice.

IN THE CLAIMS ADD

3. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;

(b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface;

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and

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) at least one solvent;

(2) at least one electrochromic material;

(3) a cross-linked matrix; and

(4) wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.

4. (new) The electrochromic device according to claim 3, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

5. (new) The electrochromic device according to claim 3, wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

6. (new) The electrochromic device according to claim 5, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

7. (new) The electrochromic device according to claim 3, wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

8. (new) The electrochromic device according to claim 7, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

9. (new) The electrochromic device according to claim 3, wherein the cross-linked matrix results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.

10. (new) The electrochromic device according to claim 9, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

11. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;

(b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface;
and

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) at least one solvent;

(2) at least one electrochromic material;

(3) a free-standing gel; and

(4) wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.

12. (new) The electrochromic device according to claim 11, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

13. (new) The electrochromic device according to claim 11, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

14. (new) The electrochromic device according to claim 13, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

15. (new) The electrochromic device according to claim 11, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

16. (new) The electrochromic device according to claim 15, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

17. (new) The electrochromic device according to claim 11, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.

18. (new) The electrochromic device according to claim 17, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

19. (new) An electrochromic device, comprising:

- (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
- (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and
- (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

- (1) at least one solvent;
- (2) at least one electrochromic material;
- (3) a free-standing gel; and
- (4) wherein the free-standing gel results from cross-linking polymer chains.

20. (new) The electrochromic device according to claim 19, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

21. (new) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.

22. (new) The electrochromic device according to claim 21, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

23. (new) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

24. (new) The electrochromic device according to claim 23, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

25. (new) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

26. (new) The electrochromic device according to claim 25, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

27. (new) The electrochromic device according to claim 19, wherein the free-standing gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.

28. (new) The electrochromic device according to claim 27, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

29. (new) An electrochromic device, comprising:

(a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;

(b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface;
and

(c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

(1) at least one solvent;

(2) at least one electrochromic material;

(3) a substantially non-weeping gel; and

(4) wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.

30. (new) The electrochromic device according to claim 29, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

31. (new) The electrochromic device according to claim 29, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

32. (new) The electrochromic device according to claim 31, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

33. (new) The electrochromic device according to claim 29, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

34. (new) The electrochromic device according to claim 33, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

35. (new) The electrochromic device according to claim 29, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.

36. (new) The electrochromic device according to claim 35, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

37. (new) An electrochromic device, comprising:

- (a) a first substantially transparent substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the rear surface;
- (b) a second substrate having a front surface and a rear surface, wherein an electrically conductive material is applied to at least a portion of the front surface; and
- (c) an electrochromic medium contained within a chamber positioned between the first and second substrates which comprises:

- (1) at least one solvent;
- (2) at least one electrochromic material;
- (3) a substantially non-weeping gel; and
- (4) wherein the substantially non-weeping gel results from cross-linking polymer chains.

38. (new) The electrochromic device according to claim 37, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

39. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons.

40. (new) The electrochromic device according to claim 39, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

41. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

42. (new) The electrochromic device according to claim 41, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

43. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

44. (new) The electrochromic device according to claim 43, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

45. (new) The electrochromic device according to claim 37, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.

46. (new) The electrochromic device according to claim 45, wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

47. (new) An electrochromic device, comprising:

- at least one substrate; and
- a substantially non-weeping gel, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 1,000 daltons, and wherein the polymer chains are formed prior to cross-linking by polymerization of at least one monomer.

48. (new) The electrochromic device according to claim 47, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 2,000 daltons.

49. (new) The electrochromic device according to claim 47, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 3,000 daltons.

50. (new) The electrochromic device according to claim 47, wherein the substantially non-weeping gel results from cross-linking polymer chains having a molecular weight of at least approximately 5,000 daltons.

51. (new) The electrochromic device according to claim 47, wherein the same is solid state device.
